

TRANSMISSION AND WIND PROJECTS on PUBLIC LANDS in IDAHO



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March 9, 2010



KEY POINTS

- I. BLM POLICY OVERVIEW
- II. ENERGY DEVELOPMENT-WHY NOW?
- III. IDAHO PROJECTS
 - WIND
 - TRANSMISSION
- IV. ADDRESSING SPECIES CONCERNS

BLM Policy

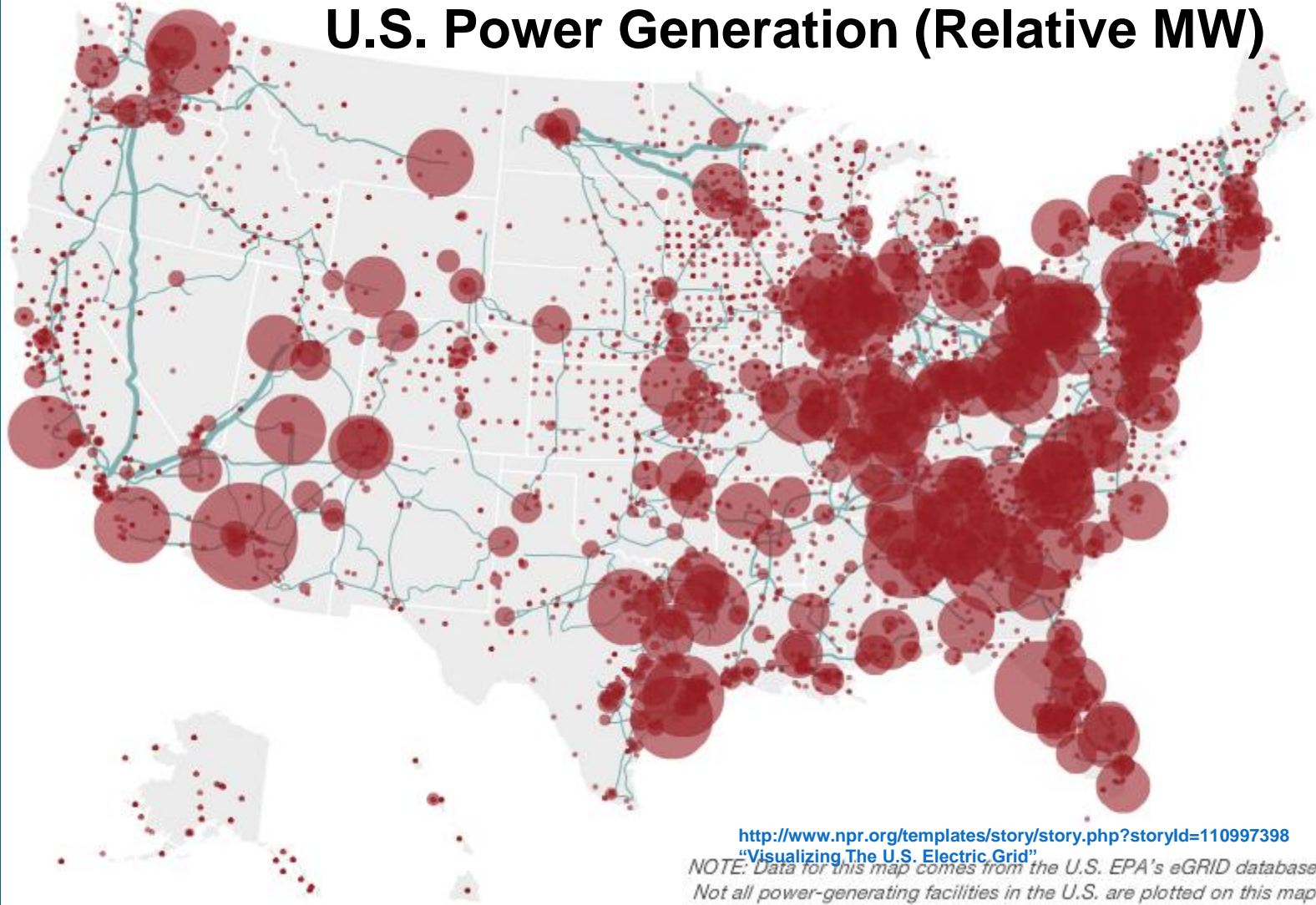
- Federal Land Policy and Management Act 1976 (FLPMA)
 - Manage “on the basis of multiple use and sustained yield unless otherwise specified by law” FLMMPA Sec. 102(a)(7)
 - Manage in manner “that will provide food and habitat for fish and wildlife” FLMMPA Sec. 102(a)(8)
 - Grant rights of ways for...”systems for generation, transmission and distribution of electric energy FLPMA Sec. 501(a)(4)

Resource Management Plans Guide Decisions

- Manage in accordance with intent of Congress (FLPMA)
- Provide goals and objectives for the landscape (vegetation etc.)
- Allocate uses of public lands (livestock grazing, ACECs, recreation etc.)
- Resolve conflicts (provide guidelines for uses, etc.)

Energy Interest...Why Now?

U.S. Power Generation (Relative MW)



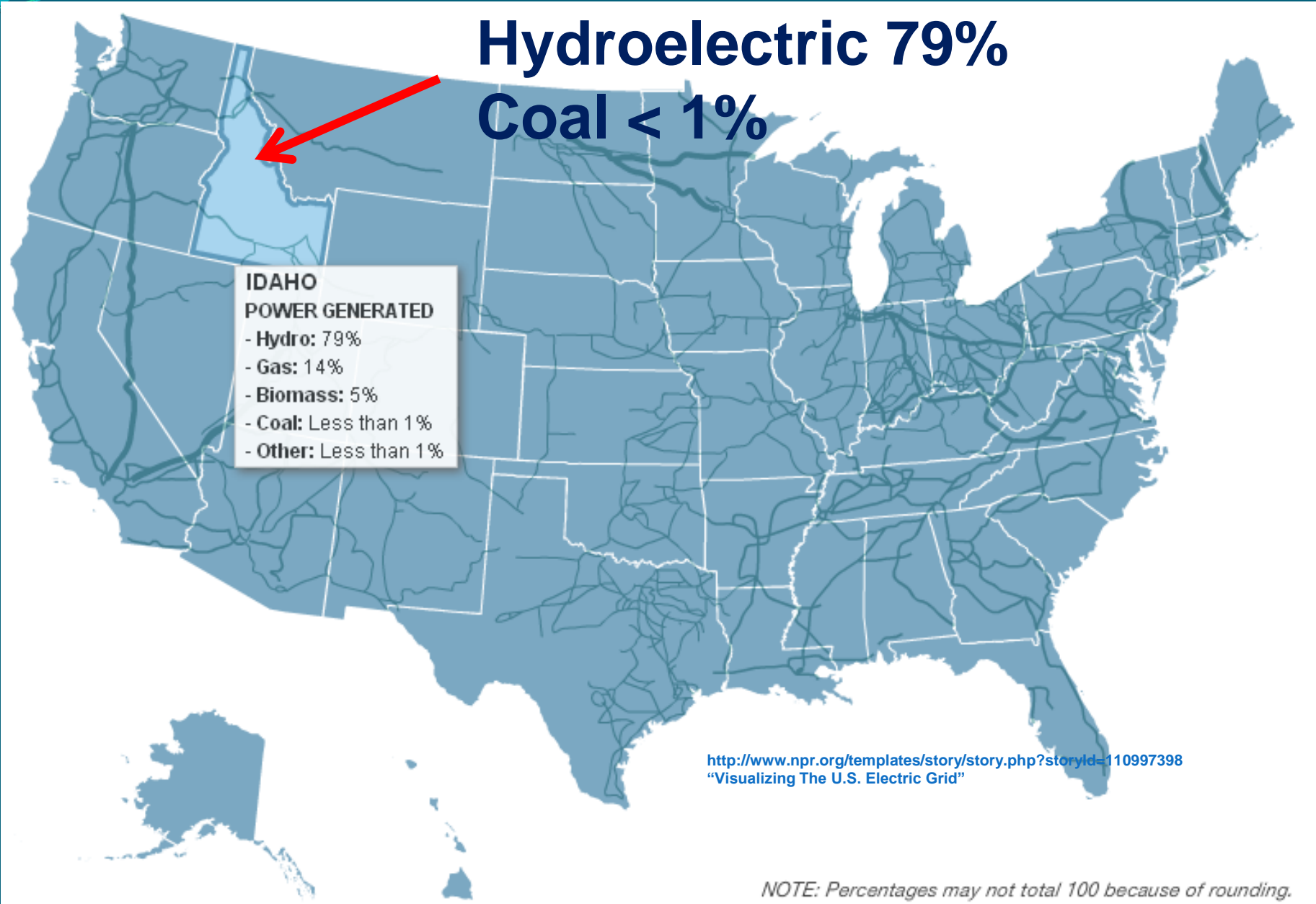
<http://www.npr.org/templates/story/story.php?storyId=110997398>

"Visualizing The U.S. Electric Grid"

NOTE: Data for this map comes from the U.S. EPA's eGRID database.
Not all power-generating facilities in the U.S. are plotted on this map.

Idaho's Energy Sources

Hydroelectric 79%
Coal < 1%



IDAHO
POWER GENERATED

- Hydro: 79%
- Gas: 14%
- Biomass: 5%
- Coal: Less than 1%
- Other: Less than 1%

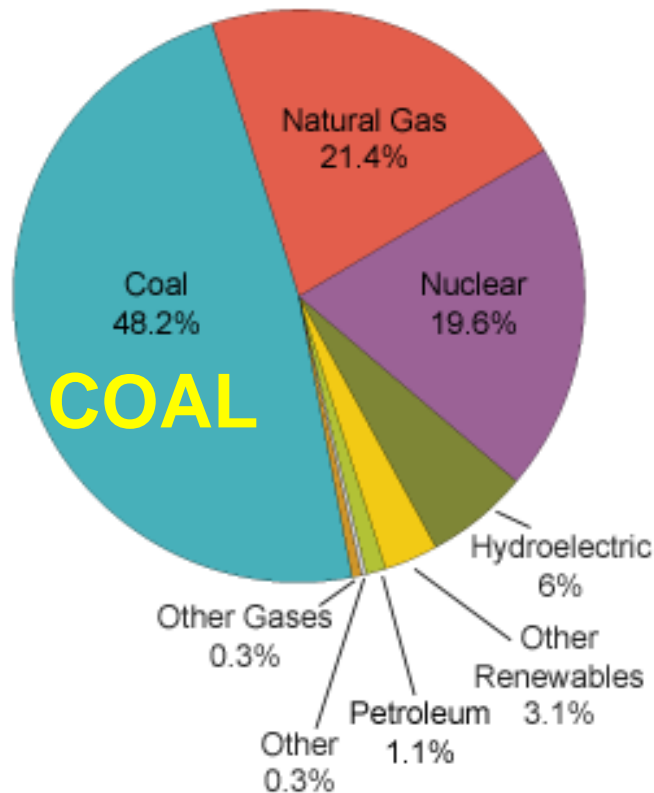
<http://www.npr.org/templates/story/story.php?storyId=110997398>
"Visualizing The U.S. Electric Grid"

NOTE: Percentages may not total 100 because of rounding.

U.S. Power Generation Sources - Data Reported for 2008

U.S. Electric Power Industry Net Generation, 2008

Total = 4,119 billion kilowatthours



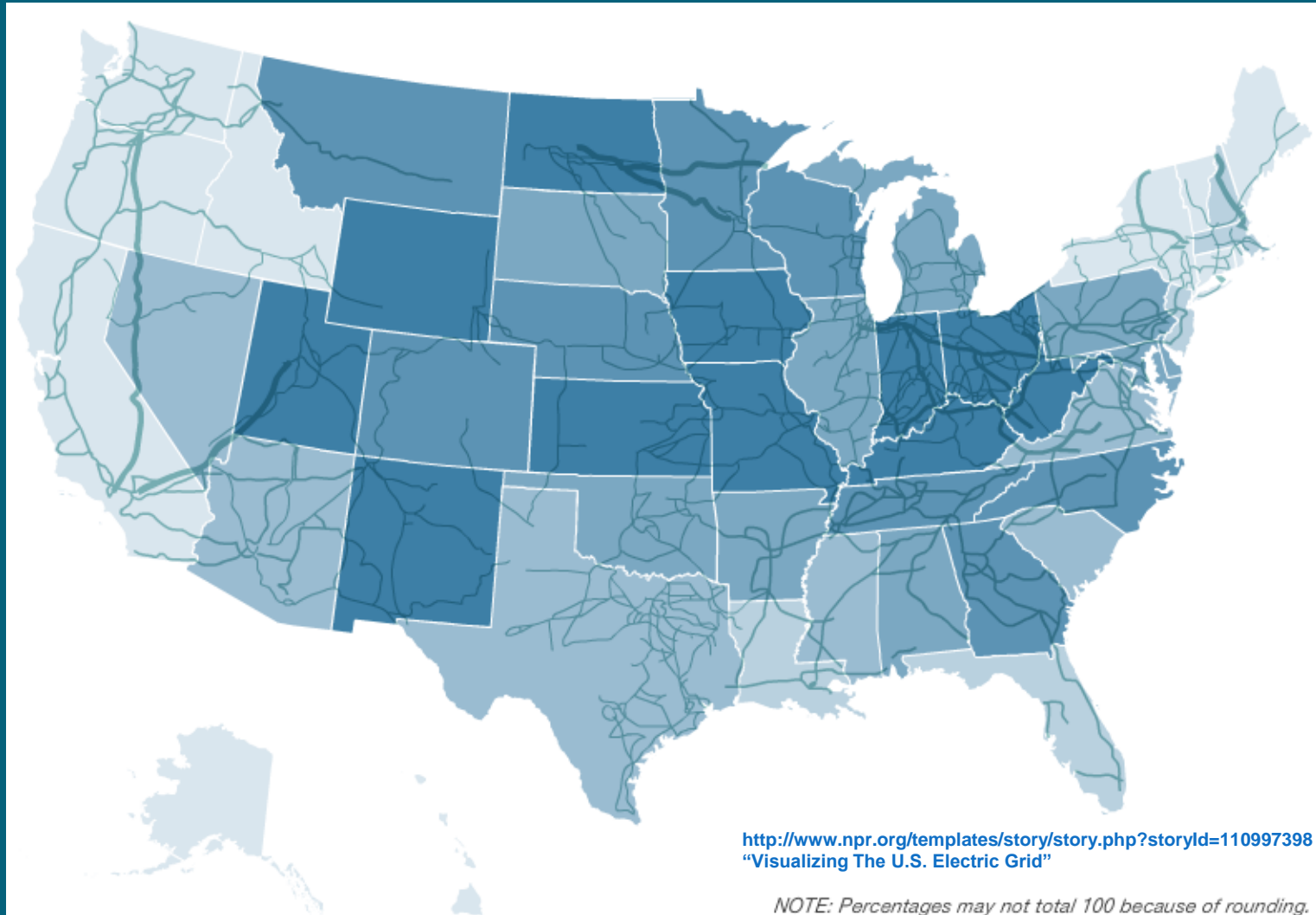
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

U.S. Energy Information Administration
<http://tonto.eia.doe.gov/kids>

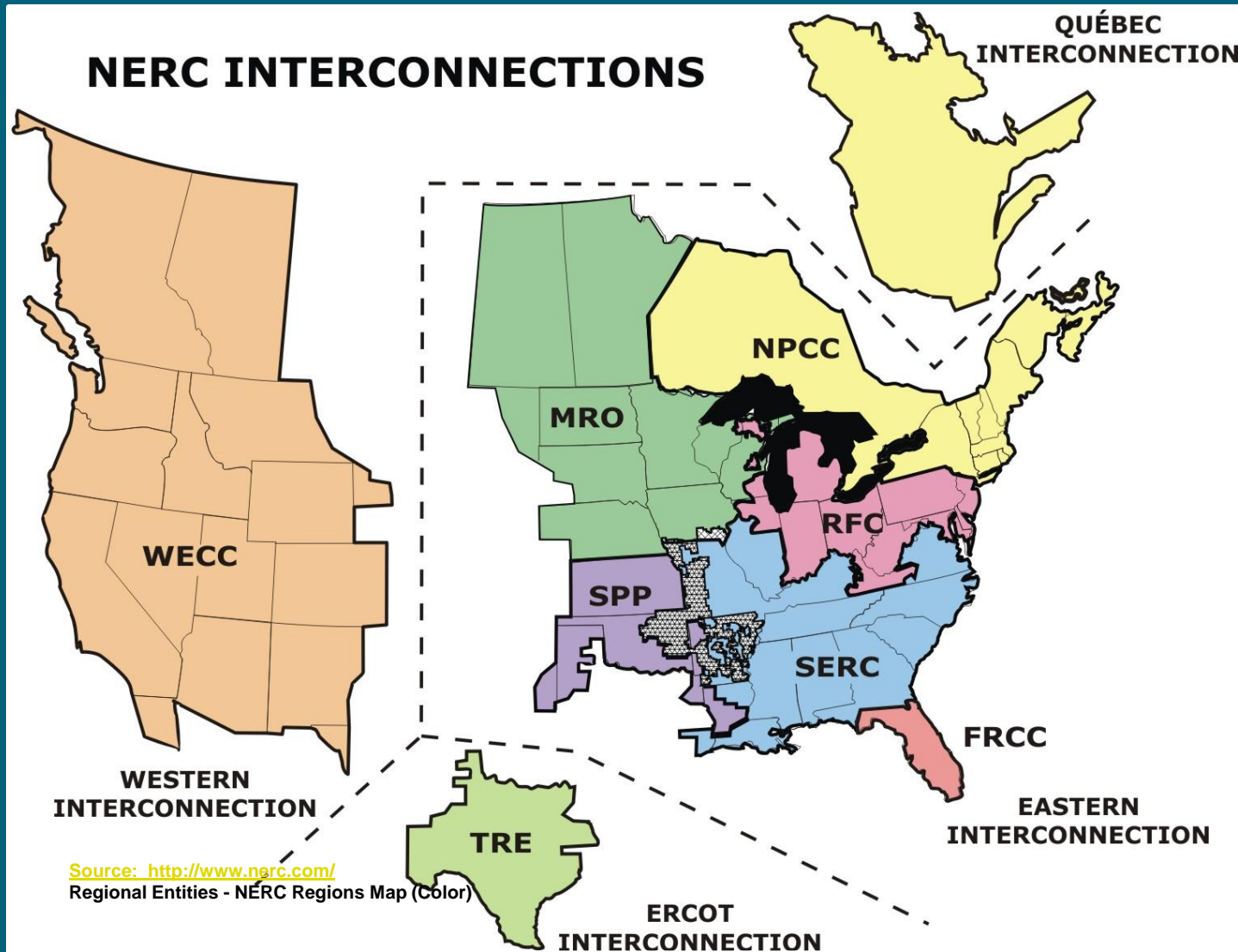
Generation

| | |
|---|---|
| U.S. Production (Net Generation) | 4,119,388 thousand megawatthours |
| U.S. Electric Utility Production (Net Generation) | 2,475,367 thousand megawatthours |
| Share (%) of Net Generation by Energy Source | |
| Coal | 48.2% |
| Nuclear | 19.6% |
| Natural gas | 21.4% |
| Hydro | 6.0% |
| Oil (Petroleum) | 1.1% |
| Other | 3.7% |
| Number of Electric Utility Generators | 17,658 |
| Largest Utility Plant by Net Generation (2007) | Palo Verde (Nuclear) — 26,782,391 megawatthours |
| Electric Generators Fossil Fuel Costs | |
| Coal | \$2.07 per million Btu or 41.14 \$/ton |
| Petroleum | \$10.87 per million Btu or 64.89 \$/barrel |
| Natural gas | \$9.02 per million Btu |

U.S. Coal Production



U.S. Energy Regions



MAJOR WESTERN TRANSMISSION GRID

Need for
Greater
Redundancy/
Reliability...

Avoid
Blackouts?
(‘e.g. ‘97)

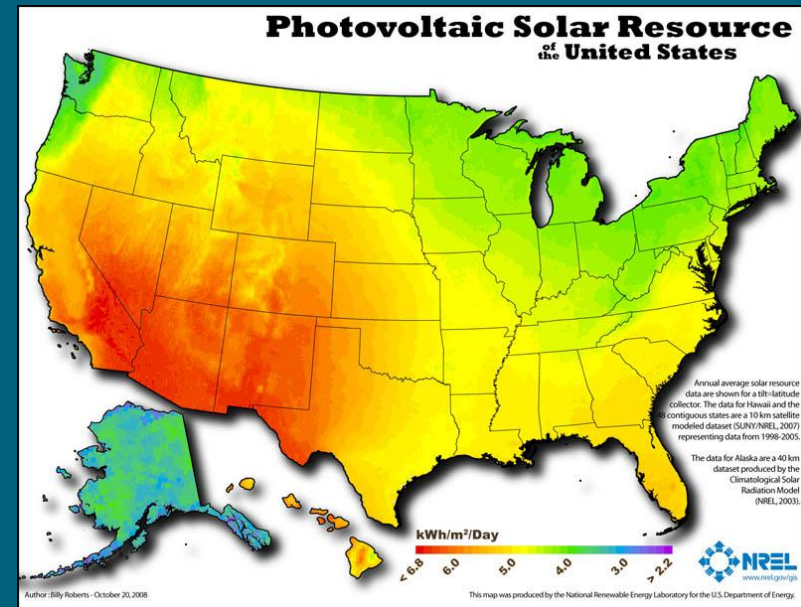


Idaho is between coal producing states and western/ southwestern population centers

NATIONAL FOCUS FOR RENEWABLE ENERGY

2005 Energy Policy Act etc....

- Wind ←
- Geothermal ←
- Hydro ←
- Tidal
- Solar



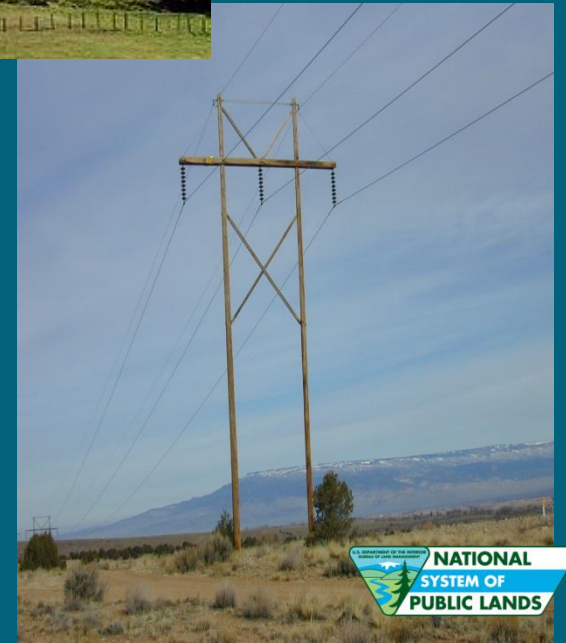
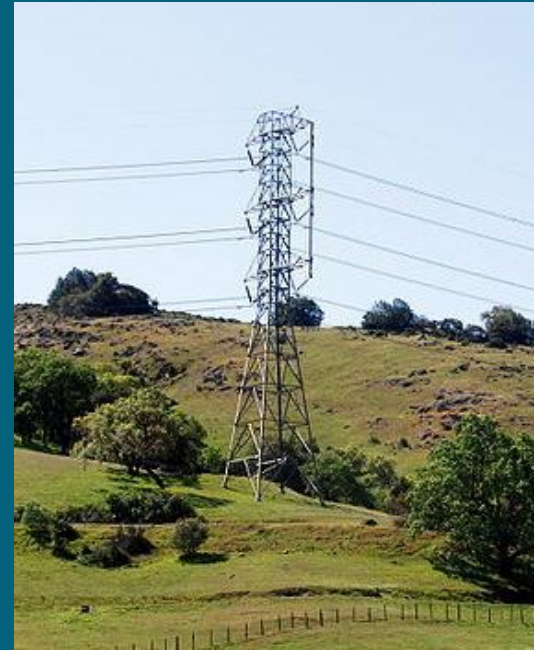
Idaho = ←

TRANSMISSION AND WIND PROJECTS IN IDAHO



TRANSMISSION PROJECTS (500kV)

1. Gateway West
2. Boardman to Hemingway
(B2H)
3. Mountain States Electric
Transmission Intertie
(MSTI)
4. Southwest Intertie
Project (SWIP)
5. Zephyr
6. Chinook
7. Overland



GATEWAY WEST TRANSMISSION LINE PROJECT

LINE SIZE: 500 kV and 345 kV

ROUTE: Glenrock, WY to Murphy, ID

APPLICANT: Idaho Power / Rocky Mountain Power

APPLICATION FILED: May 7, 2007

DESIRED CONSTRUCTION DATE: 2012

LEAD STATE DIRECTOR: Wyoming

BLM National Project Manager:

Walt George

Cheyenne, WY

307-775-6116

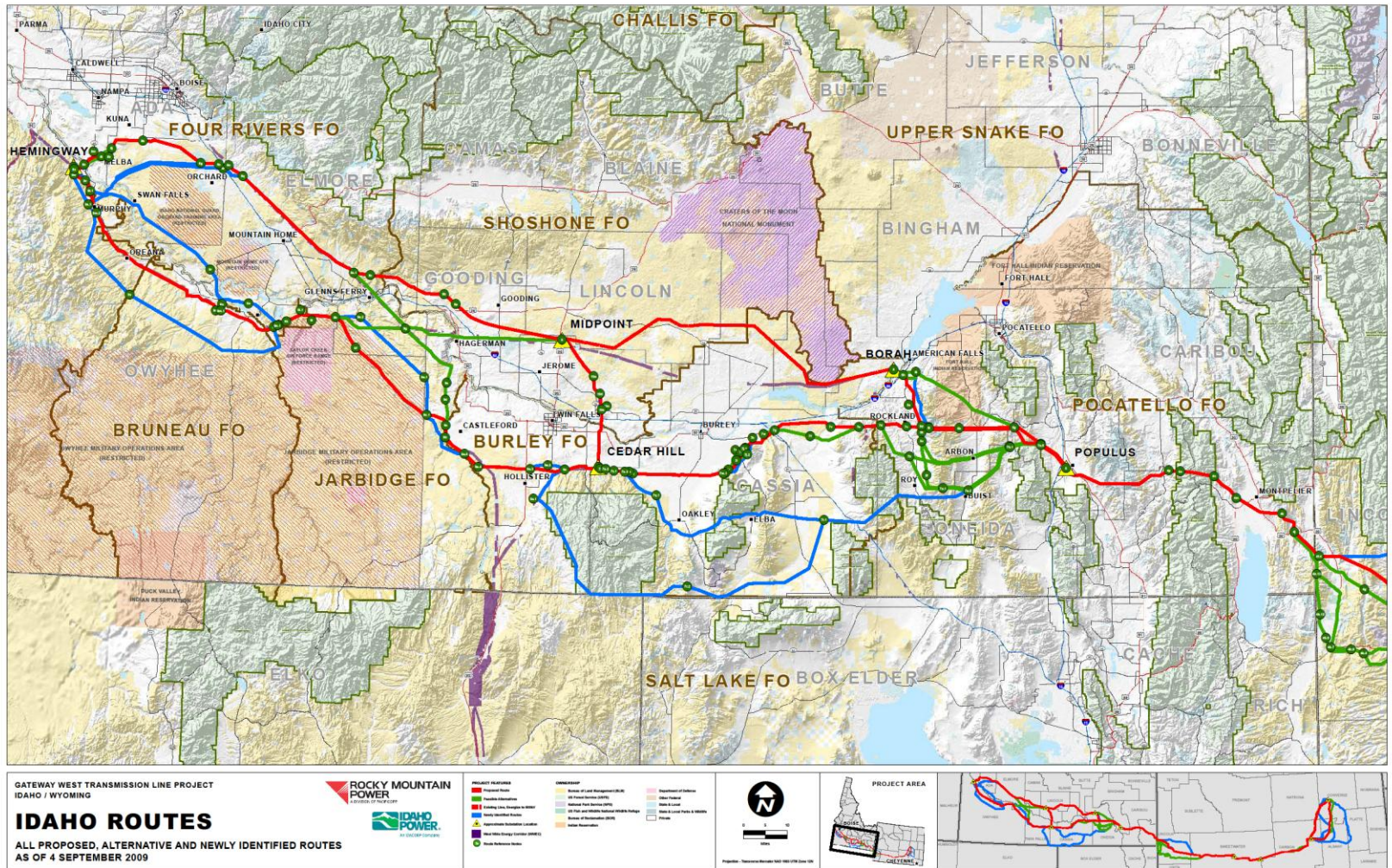
**NEPA: ADEIS expected for April 2010; DEIS July 2010
with 90-day comment period**

Project websites:

www.wy.blm.gov/nepa/cfodocs/gateway_west

www.gatewaywestproject.com/

GATEWAY WEST TRANSMISSION LINE PROJECT (PROPOSED AND ALTERNATIVEES)



BOARDMAN to HEMINGWAY TRANSMISSION LINE PROJECT

LINE SIZE: 500 kV

ROUTE: Murphy, ID to Boardman, OR

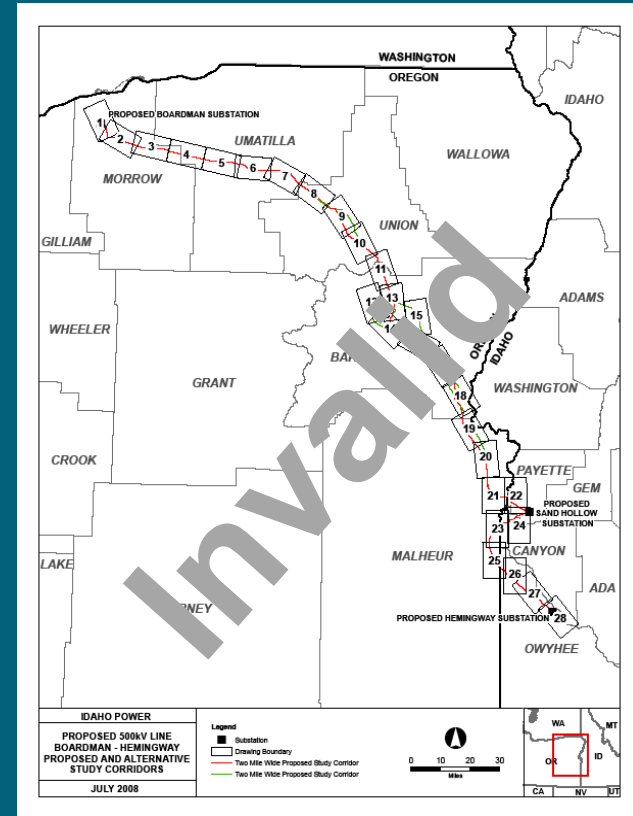
APPLICANT: Idaho Power

APPLICATION FILED: December 19, 2007

DESIRED CONSTRUCTION DATE: 2012

LEAD STATE DIRECTOR: Delegated to Vale
District Manager, Oregon

BLM National Project Manager:
John Styduhaur
Portland, OR
503-808-6454



Waiting for revised application – scoping will follow

Project Website:

www.idahopower.com/newsroom/projnews/hemingway_boardman

MOUNTAIN STATES TRANSMISSION INTERTIE (MSTI) PROJECT

LINE SIZE: 500 kv

ROUTE: Townsend, MT to Shoshone, ID

APPLICANT: NorthWestern Energy

APPLICATION FILED: August 24, 2007

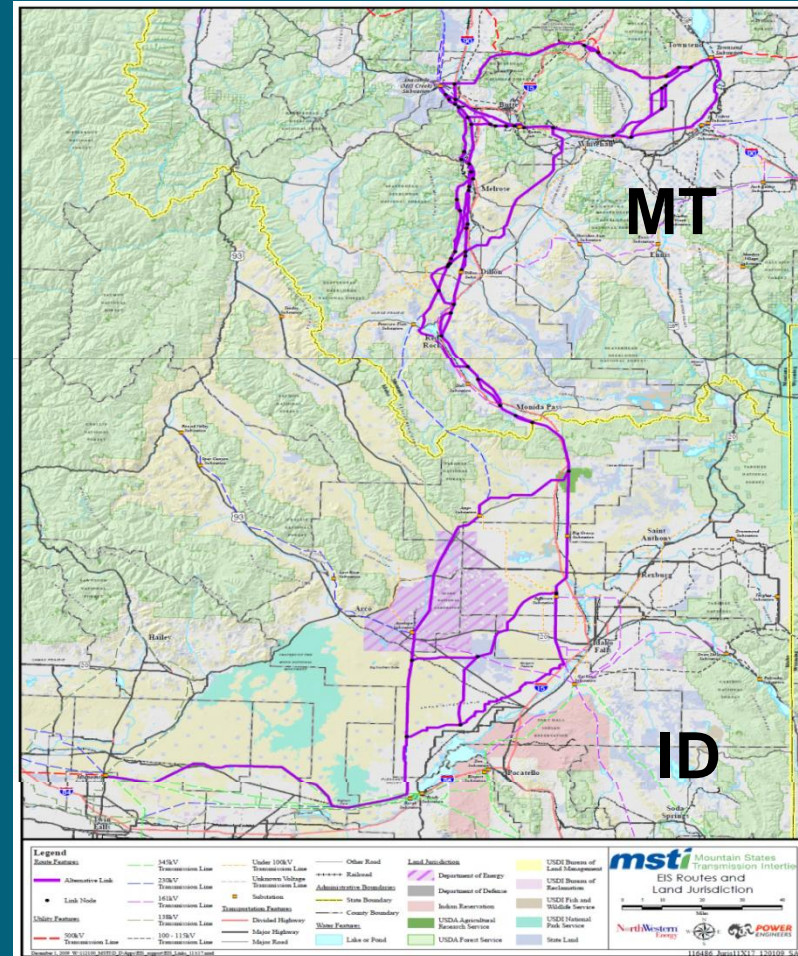
DESIRED CONSTRUCTION DATE: 2013

LEAD STATE DIRECTOR: Delegated to
Dillon Filed Office, Montana

BLM National Project Manager:
Mark Mackiewicz, 435-636-3616
Price, UT

**NEPA: Reviewing ADEIS; DEIS
Expected Spring 2010 with 60-day comment period**

Project Website:
www.msti500kv.com/



SOUTHWEST INTERTIE PROJECT (SWIP)

LINE SIZE: 500 kV

ROUTE: Shoshone, ID to Las Vegas, NV

HOLDER: Great Basin Transmission, LLC

ROW GRANTED: December 8, 1994

DESIRED CONSTRUCTION DATE: Fall 2010

Idaho Contact:

Jeff Steele

Twin Falls, ID

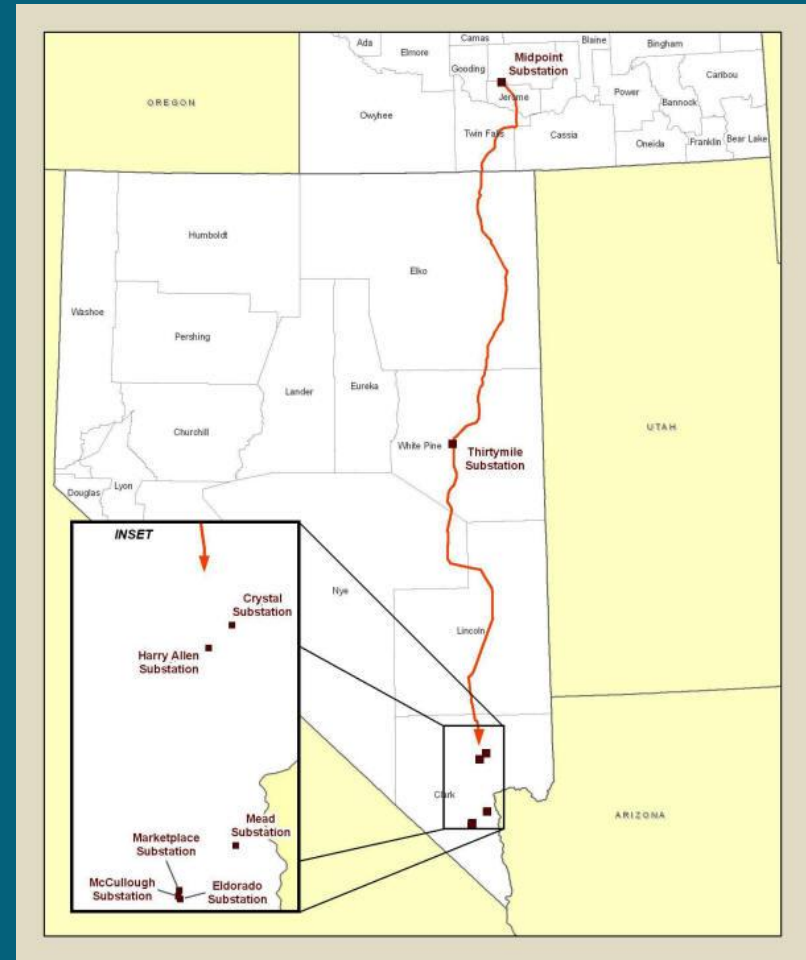
208- 732-7405

**NEPA: Assessing
applicability of an EA**

Project Website:

<http://www.swipos.com/>

Associated Company: EPG



Zephyr and Chinook

LINE SIZE: 500 kV and 500 kV

ROUTE: Townsend, MT to Las Vegas, NV
Gillette, WY to Las Vegas, NV

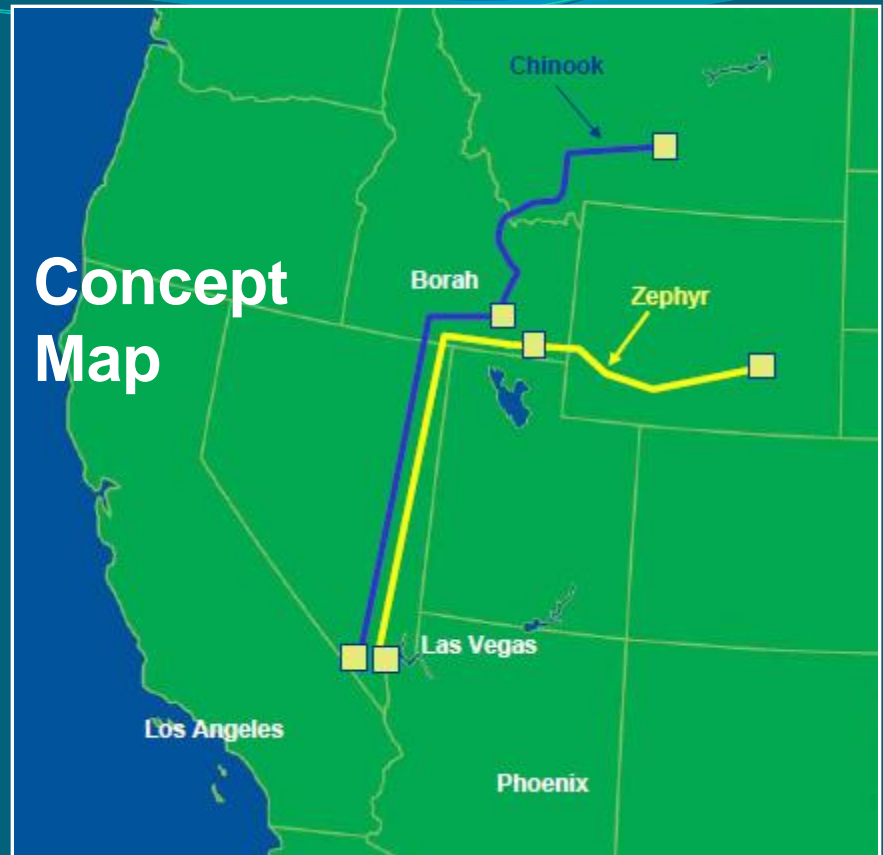
APPLICANT: TransCanada

APPLICATION FILED:

DESIRED CONSTRUCTION DATE: TBD

LEAD STATE DIRECTOR:

BLM National Project Manager: TBD



Preliminary applications. Company in an open season to decide whether to pursue the ROW

Project Website:

http://www.transcanada.com/company/zephyr_chinook.html

Overland

LINE SIZE: 500 kV, DC

ROUTE: Chugwater, WY to
the Midpoint Substation near Shoshone

APPLICANT: Jade Energy Associates
(LS Power)

APPLICATION FILED: Feb. 2009

DESIRED CONSTRUCTION DATE: 2012

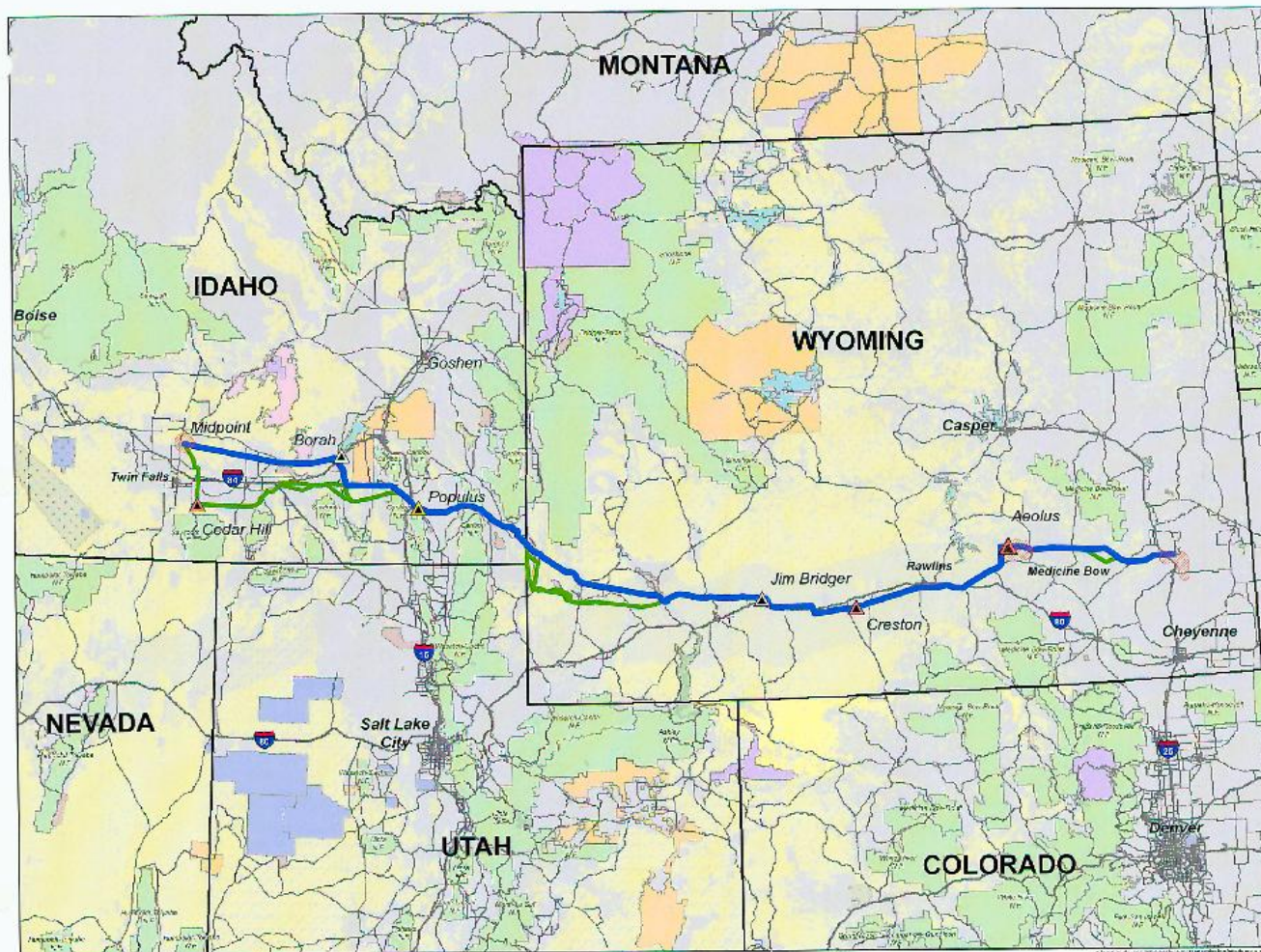
LEAD STATE DIRECTOR: Idaho

Project Manager: TBD

**A revised application will be necessary before BLM
may accept the application and begin scoping.**

No project website

Overland



Overland Intertie Project

HV Transmission Line

Figure 1

Legend

- Preliminary Project Route
- Preliminary Alternative Project Route
- ▲ Substation Proposed by Others
- ▲ Existing Substation
- ▲ Substation Planned by Others
- Substation Siting Area
- Bureau of Land Management
- U.S. Forest Service
- National Park Service
- Department of Defense
- U.S. Fish & Wildlife Service
- State/Private
- BLM Field Office

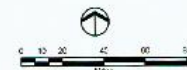
Reference Features

- Interstate
- Highway
- Major Road

Data Sources

Land Ownership: BLM Denver Service Center, 2006 BLM National Atlas, 2006, EPG Inc. 2007

Note: Substation locations and intertie route are approximate and do not necessarily represent actual locations.



February 2009

IDAHO WIND ENERGY PROJECTS



Idaho Wind Energy Project Proposals 2010 (Source: IOER)

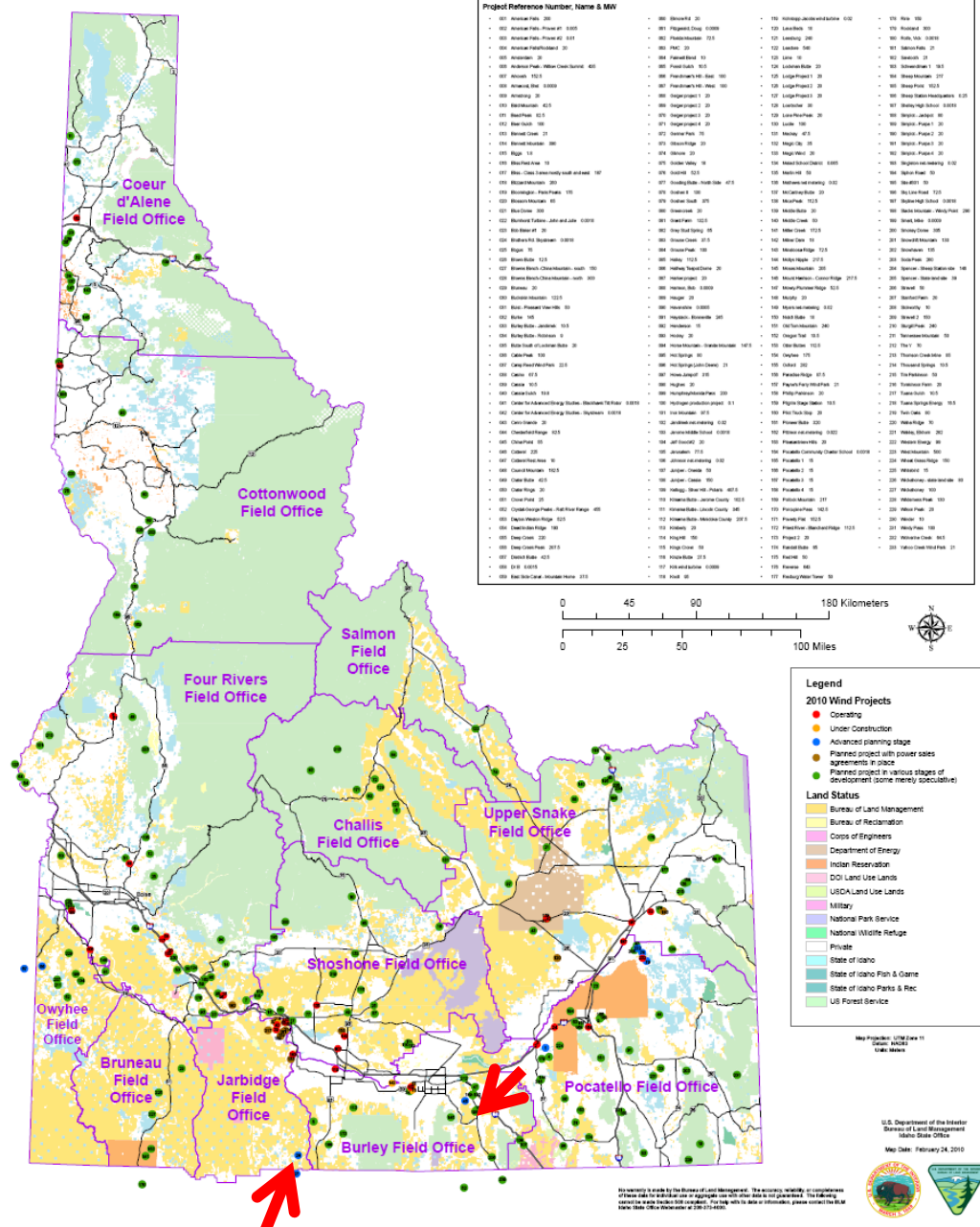
MAJOR BLM PROJECTS:

China Mountain – NEPA in progress

Cotterel -ROD Signed 2006

Operating, Planned and Prospective Wind Power Projects in Idaho

As of January 2010



CHINA MOUNTAIN WIND ENERGY DEVELOPMENT PROJECT

PROJECT SPECS: 425 Megawatt Facility, 170 wind turbines

LOCATION: Twin Falls District, ID and West of Jackpot, NV

APPLICANT: China Mountain Wind, LLC

APPLICATION FILED: June 1, 2007

LEAD STATE DIRECTOR: Idaho

BLM Project Contact:

Scott Barker

Shoshone, ID

208-735-2072

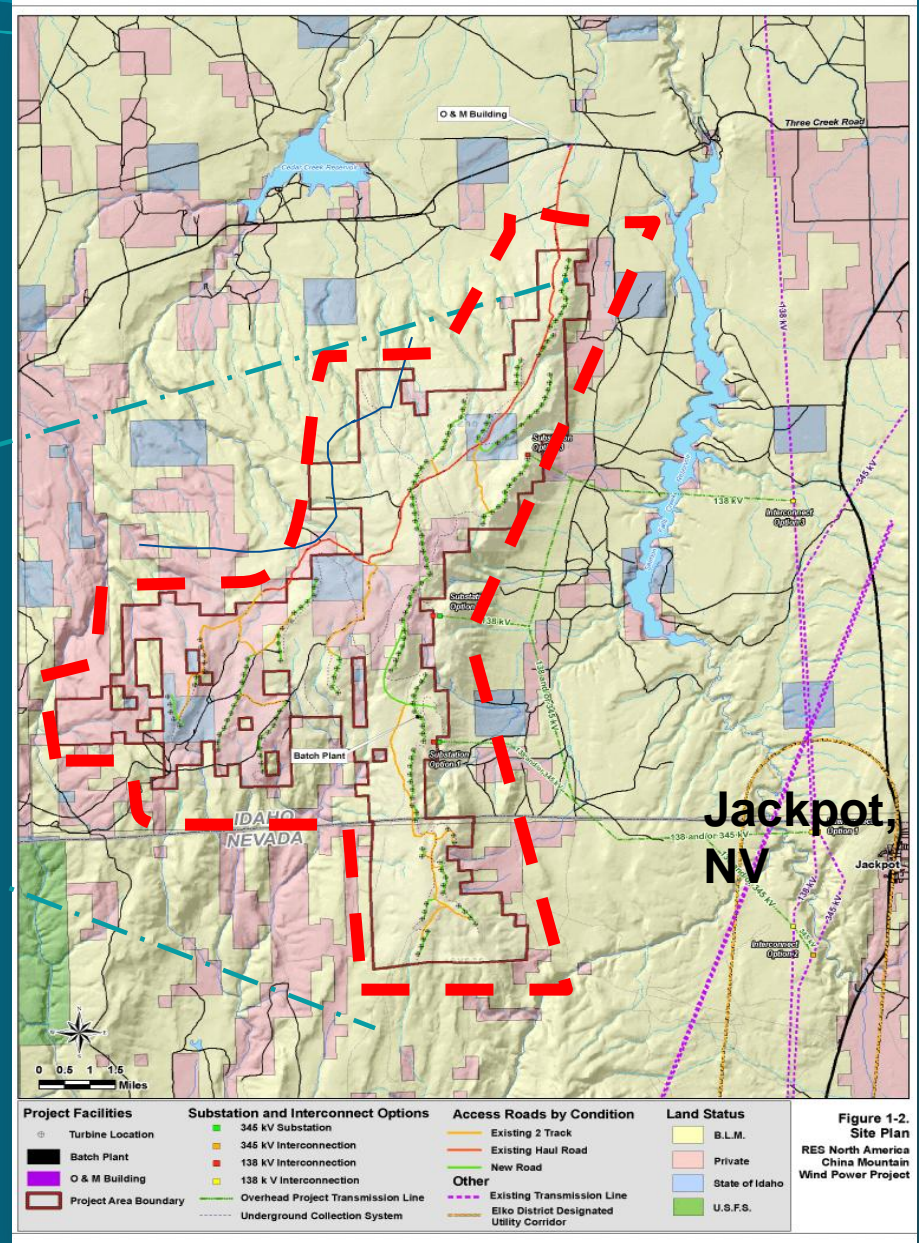
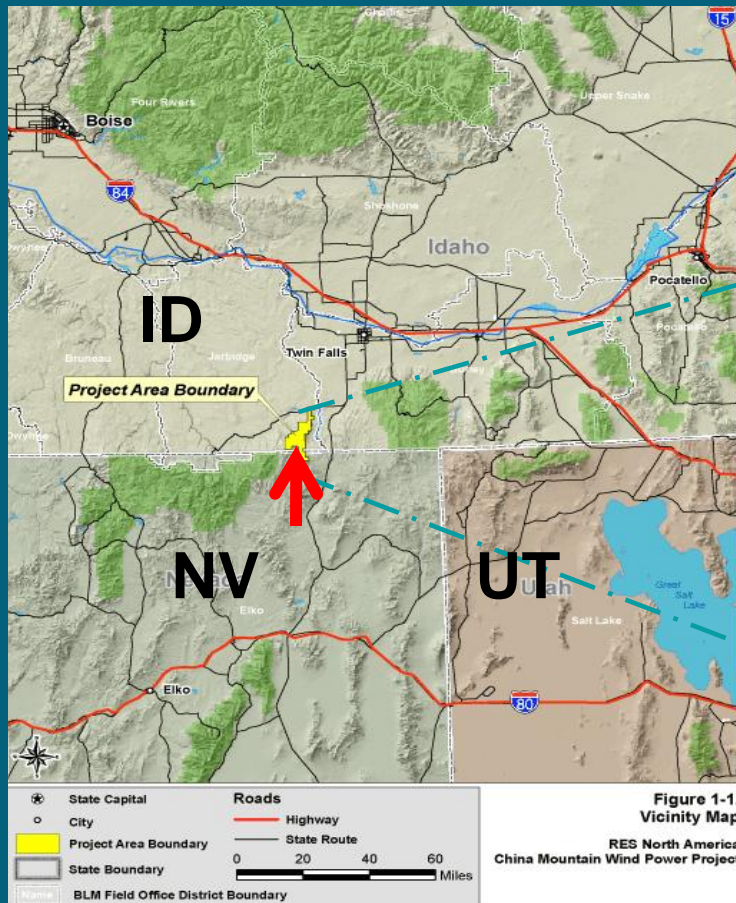
**NEPA: ADEIS expected May 2010; DEIS expected October 2010
with a 60-day comment period**

Project Websites:

http://www.blm.gov/id/st/en/prog/planning/china_mountain_wind.html

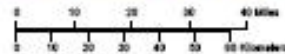
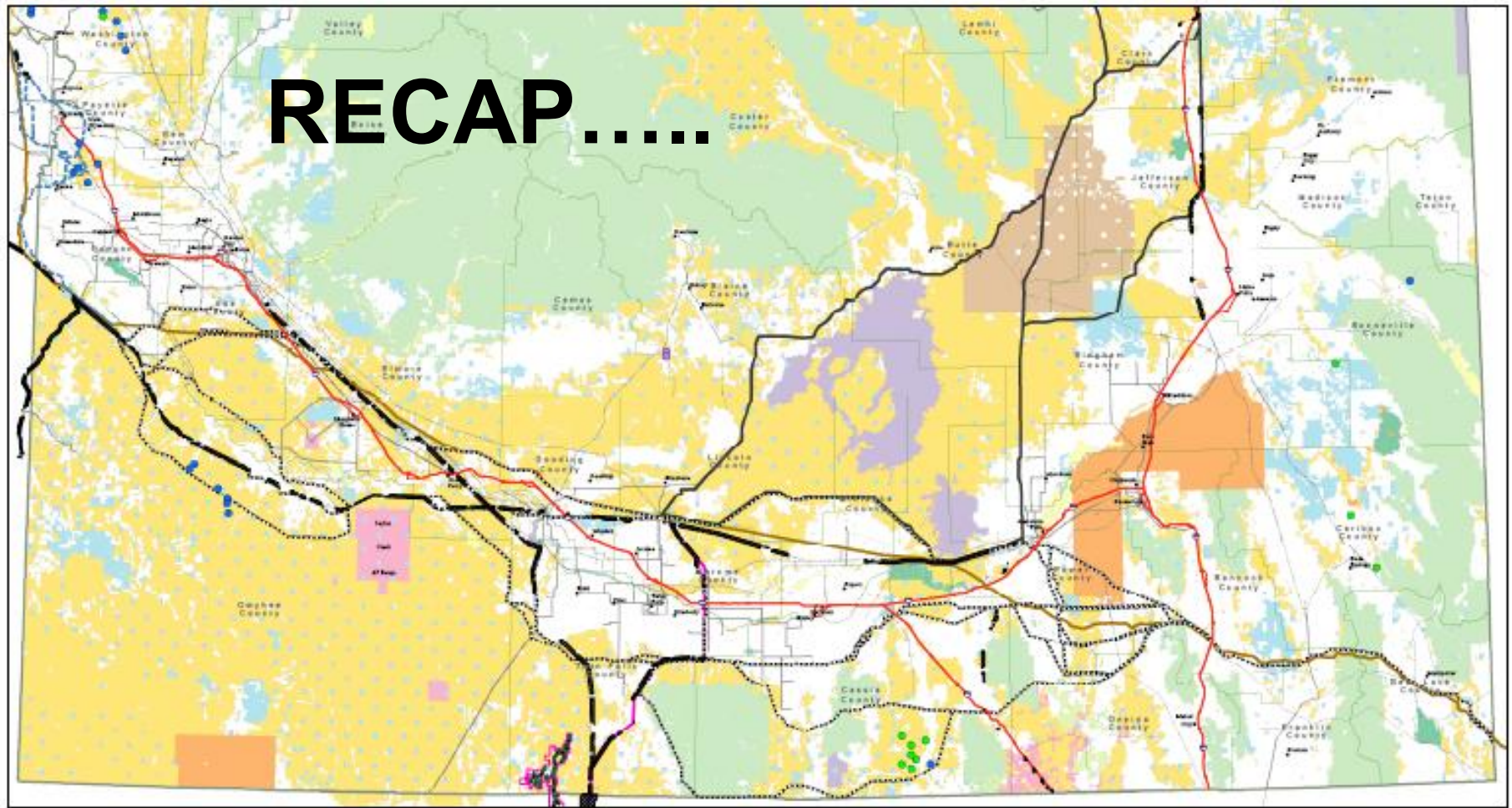


China Mountain



Idaho's Proposed Major Energy Projects

RECAP.....



General Location Map

MAP LEGEND

Land Managing Agency

- | | |
|-----------------------|--------------------------|
| BLM | MtW |
| Bureau of Reclamation | National Park Service |
| Coops of Engineers | National Wildlife Refuge |
| Department of Energy | Other Federal |
| Indian Reservation | Private |
| DOI Land Use Lands | State Lands |
| USDA Land Use Lands | USFS |

Proposed Energy Projects

- Transmission Line Preliminary Route
- Mountain States Inside Route
- Boardman to Hagerman Route
- Gateway West Route
- Southwest Inside Route

Chico Mountain Proposed Wind Energy Project

- Existing Met Towers
- Proposed Turbines
- Project Boundary

Geothermal Lease

- Authorized
- Pending Competitive
- Pending Non-competitive

Other Map Symbols

- Interstate Highway
- County Boundary
- State Boundary
- Wild-Wide Energy Corridor

Disclaimer

This map is not a guarantee of any project. It is only a representation of the current status of the project. The project may be subject to change without notice. The project may be subject to change without notice. The project may be subject to change without notice.

Map Data Sources

This map is based on data from the following sources: BLM, USFS, NPS, and other federal agencies. The data is current as of the date of the map. The data is current as of the date of the map. The data is current as of the date of the map.



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Idaho State Office
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Boise, Idaho 83725
200-333-3333

Addressing Species Concerns

- **BLM Policy: Endangered/ Threatened/Proposed Species**
 - **Conserve, Recover listed species** and the ecosystems on which they depend so ESA protections are no longer needed...(Manual 6840.02(a))
- **BLM Policy: Sensitive Species**
 - Objective: “To **initiate proactive conservation measures** that reduce or eliminate threats to Bureau Sensitive species to minimize the likelihood of and need for listing of these species under the ESA” (Manual 6840 .02(B))

Addressing Species Concerns

- Identify species potentially affected
 - Endangered, Threatened, Proposed, Candidate Spp.
 - Early involvement with Level 1 Teams
 - Biological Assessment >>>> Biol . Opinion
 - BLM Sensitive wildlife, fish, plants
 - Other (big game, migratory birds...)

Addressing Species Concerns

- Analyze and address in NEPA Process
 - Gather, compile existing data (Contractors in cooperation with BLM and IDFG).
 - Often project-specific surveys (e.g. bats, leks, rare plants....).
 - Guide alternatives, >>> Avoidance measures, Seasonal Restrictions/ other >>> off site mitigation???
 - Multi scale effects? (e.g Sage-grouse analyses)
 - Wind Projects... “Wildlife Working Group” to guide survey, data, analysis needs

On the Horizon...Collaborative?

- Consistency in expectations for pre-construction surveys, impacts analysis (vs.. project by project approach)
- Consistency in expectations/ processes for onsite and off-site mitigation
- Consistency in approach to wildlife/fish/ plant conservation measures and seasonal restrictions

QUESTIONS?

